

SEQUENCE LISTING

<110> Hellinga, Homme W.

Sloan, David J.

<120> NOVEL REAGENTS FOR AFFINITY-PURIFICATION OF ANTIBODY

5 FRAGMENTS

<130> Docket No. 180-106 Sequence Listing

<140>

<141>

<160> 24

10 <170> PatentIn Ver. 2.0

<210> 1

<211> 195

<212> DNA

<213> *Streptococcus sp.*

15 <220>

<221> CDS

<222> (-1)..(195)

<400> 1

20	atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu -1 1 5 10 15
	aca act act gaa gct gtt gat gct gct act gca gaa aaa gtc ttc aaa 96 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys 20 25 30
25	caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat 144 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp 35 40 45
30	gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala 50 55 60
	tga 195

<210> 2

<211> 62

<212> PRT

<213> *Streptococcus sp.*

5 <400> 2

Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
-1 1 5 10 15  
Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys  
20 25 30  
10 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp  
35 40 45  
Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His  
50 55 60

<210> 3

15 <211> 62

<212> PRT

<213> *Streptococcus sp.*

<400> 3

20 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
-1 1 5 10 15  
Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys  
20 25 30  
Cys Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp  
35 40 45  
25 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His  
50 55 60

<210> 4

<211> 62

<212> PRT

30 <213> *Streptococcus sp.*

<400> 4

Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
 -1 1 5 10 15  
 Thr Thr Thr Glu Ala Val Asp Ala Ala Ala Glu Lys Val Phe Lys  
 20 25 30  
 5 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp  
 35 40 45  
 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His  
 50 55 60

<210> 5

10 <211> 195

<212> DNA

<213> *Streptococcus sp.*

<220>

<221> CDS

15 <222> (-1)..(195)

<400> 5

atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48  
 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
 -1 1 5 10 15  
 20 aca act act gaa gct gtt gat gct gct act gca gcg aaa gtc ttc aaa 96  
 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Ala Lys Val Phe Lys  
 20 25 30  
 25 caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat 144  
 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp  
 35 40 45  
 |  
 gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192  
 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala  
 50 55 60  
 tga 195

30 <210> 6

<211> 62

<212> PRT

<213> *Streptococcus sp.*

<400> 6

	Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu	
	-1 1 5 10 15	
	Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Ala Lys Val Phe Lys	
	20 25 30	
5	Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp	
	35 40 45	
	Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His	
	50 55 60	
	<210> 7	
10	<211> 195	
	<212> DNA	
	<213> <i>Streptococcus sp.</i>	
	<220>	
	<221> CDS	
15	<222> (-1)..(195)	
	<400> 7	
	atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa	48
	Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu	
	-1 1 5 10 15	
20	aca act act gaa gct gtt gat gct gct act gca gaa gcg gtc ttc aaa	96
	Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Ala Val Phe Lys	
	20 25 30	
	caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat	144
25	Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp	
	35 40 45	
	gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct	192
	Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala	
	50 55 60	
	tga	195
30	<210> 8	
	<211> 62	
	<212> PRT	
	<213> <i>Streptococcus sp.</i>	
	<400> 8	

Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
 -1 1 5 10 15  
 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Ala Val Phe Lys  
 20 25 30  
 5 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp  
 35 40 45  
 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His  
 50 55 60

<210> 9

10 <211> 195

<212> DNA

<213> *Streptococcus sp.*

<220>

<221> CDS

15 <222> (-1)..(195)

<400> 9

atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48  
 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
 -1 1 5 10 15  
 20 aca act act gaa gct gtt gat gct gct act gca gaa aaa gtc ttc gcg 96  
 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Ala  
 20 25 30  
 25 caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat 144  
 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp  
 35 40 45  
 gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192  
 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala  
 50 55 60  
 tga 195

30 <210> 10

<211> 62

<212> PRT

<213> *Streptococcus sp.*

<400> 10

Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
 -1 1 5 10 15  
 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Ala  
 20 25 30  
 5 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp  
 35 40 45  
 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His  
 50 55 60

<210> 11

10 <211> 195

<212> DNA

<213> *Streptococcus sp.*

<220>

<221> CDS

15 <222> (-1)..(195)

<400> 11

atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48  
 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
 -1 1 5 10 15  
 20 aca act act gaa gct gtt gat gct gct act gca gaa aaa gtc ttc aaa 96  
 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys  
 20 25 30  
 25 caa tac gct gcg gac aac ggt gtt gac ggt gaa tgg act tac gac gat 144  
 Gln Tyr Ala Ala Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp  
 35 40 45  
 |  
 gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192  
 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala  
 50 55 60  
 tga 195

30 <210> 12

<211> 62

<212> PRT

<213> *Streptococcus sp.*

<400> 12

Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
 -1 1 5 10 15  
 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys  
 20 25 30  
 5 Gln Tyr Ala Ala Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp  
 35 40 45  
 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His  
 50 55 60

<210> 13

10 <211> 62

<212> PRT

<213> *Streptococcus sp.*

<400> 13

15 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
 -1 1 5 10 15  
 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys  
 20 25 30  
 Gln Tyr Ala Asn Asp Asn Gly Val Ala Gly Glu Trp Thr Tyr Asp Asp  
 35 40 45  
 20 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His  
 50 55 60

<210> 14

<211> 62

<212> PRT

25 <213> *Streptococcus sp.*

<400> 14

30 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
 -1 1 5 10 15  
 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys  
 20 25 30  
 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Ala Trp Thr Tyr Asp Asp  
 35 40 45  
 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His  
 50 55 60

<210> 15

<211> 195

<212> DNA

<213> *Streptococcus sp.*

5 <220>

<221> CDS

<222> (-1)..(195)

<400> 15

10 atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48  
Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
-1 1 5 10 15  
aca act act gaa gct gtt gat gct gct act gca gaa aaa gtc ttc aaa 96  
Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys  
20 25 30  
15 caa tac gct aac gac aac ggt gtt gac ggt gaa gcg act tac gac gat 144  
Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Ala Thr Tyr Asp Asp  
35 40 45  
gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192  
Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala  
50 55 60  
tga 195

<210> 16

<211> 62

<212> PRT

25 <213> *Streptococcus sp.*

<400> 16

30 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu  
-1 1 5 10 15  
Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys  
20 25 30  
Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Ala Thr Tyr Asp Asp  
35 40 45  
Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His  
50 55 60



<210> 17

<211> 195

<212> DNA

<213> *Streptococcus sp.*

5 <220>

<221> CDS

<222> (-1)..(195)

<400> 17

10	atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa	48
	Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu	
	-1 1 5 10 15	
	aca act act gaa gct gtt gat gct gct act gca gaa aaa gtc ttc aaa	96
	Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys	
	20 25 30	
15	caa tac gct aac gac aac ggt gtt gac ggt gaa tgg gcg gcg gac gat	144
	Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Ala Ala Asp Asp	
	35 40 45	
20	gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct	192
	Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala	
	50 55 60	
	tga	195

<210> 18

<211> 62

<212> PRT

25 <213> *Streptococcus sp.*

<400> 18

30	Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
	-1 1 5 10 15
	Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val Phe Lys
	20 25 30
	Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Ala Ala Asp Asp
	35 40 45
	Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
	50 55 60

<210> 19

<211> 195

<212> DNA

<213> *Streptococcus sp.*

5 <220>

<221> CDS

<222> (-1)..(195)

<400> 19

```
10  atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48
    Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
    -1  1          5          10          15

    aca act act gaa gct gtt gat gct gct act gca gtt aaa gtc ttc aaa 96
    Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Val Lys Val Phe Lys
          20          25          30

15  caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat 144
    Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
          35          40          45

20  gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192
    Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala
          50          55          60

    tga 195
```

<210> 20

<211> 62

25 <212> PRT

<213> *Streptococcus sp.*

<400> 20

```
30  Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu
    -1  1          5          10          15

    Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Val Lys Val Phe Lys
          20          25          30

    Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp
          35          40          45

35  Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His
    50          55          60
```

<210> 21

<211> 195

<212> DNA

<213> *Streptococcus sp.*

5 <220>

<221> CDS

<222> (-1)..(195)

<400> 21

10	atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa	48
	Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu	
	-1 1 5 10 15	
	aca act act gaa gct gtt gat gct gct act gca tta aaa gtc ttc aaa	96
	Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Leu Lys Val Phe Lys	
	20 25 30	
15	caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat	144
	Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp	
	35 40 45	
20	gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct	192
	Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala	
	50 55 60	
	tga	195

<210> 22

<211> 62

1

25 <212> PRT

<213> *Streptococcus sp.*

<400> 22

30	Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu	
	-1 1 5 10 15	
	Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Leu Lys Val Phe Lys	
	20 25 30	
	Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp	
	35 40 45	
35	Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His	
	50 55 60	

<210> 23

<211> 195

<212> DNA

<213> *Streptococcus sp.*

5 <220>

<221> CDS

<222> (-1)..(195)

<400> 23

10	atg act act tac aaa tta atc ctt aat ggt aaa aca ttg aaa ggc gaa 48 Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu -1 1 5 10 15
	aca act act gaa gct gtt gat gct gct act gca att aaa gtc ttc aaa 96 Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Ile Lys Val Phe Lys 20 25 30
15	caa tac gct aac gac aac ggt gtt gac ggt gaa tgg act tac gac gat 144 Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp 35 40 45
20	gcg act aag acc ttt aca gtt act gaa cat cac cat cat cac taa gct 192 Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His Ala 50 55 60
	tga 195

<210> 24

<211> 62

25 <212> PRT

<213> *Streptococcus sp.*

<400> 24

30	Met Thr Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys Gly Glu -1 1 5 10 15
	Thr Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Ile Lys Val Phe Lys 20 25 30
	Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr Asp Asp 35 40 45
35	Ala Thr Lys Thr Phe Thr Val Thr Glu His His His His His 50 55 60